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Sci - Materials
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ID 2204011366

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Sci - Engineering, Chemistry

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*ATIC

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NIL M.4295

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NLL Ref: 5828.4F (12846)

NTC 69-11318-07C

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ID 2204030267

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ETC-68-24437

Sci/phys

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NLL RTS 3169

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Nov 67

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*PL-480
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NCB A 1581

Sci

Jan 65

63-11067

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Order from OTS \$3.00 63-11067

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II. National Science Foundation, Washington, D. C.

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(Kharkov U. Ucheni Zapysky (USSR) 1960, v. 108).

DESCRIPTORS: *Age, Physiology, *Proteins, Synthesis,
*Serum albumin, Animals, Enzymes, *Muscle proteins,
*Amino acids, *Liver, Nucleoproteins, *Phosphorus
compounds, Lipoproteins, Tissues (Biology),
*Adenosine phosphates, *Nucleic acids, *Growth substances,
Diet, Rats, *Surgery, *Hormones, Regeneration,
Metabolism, *Thyroxine, Blood, *Corticosteroid agents,
Nerves, Oxidation, *Pituitary hormones, *Embryos, Birds.
(Biological Sciences--Biochemistry, TT, v. 10, no. 5)
(over)

Office of Technical Services

Petrov, G. S., Danilovich, A. I., and Rabinovich, A. Ya.
CATALYTIC OXIDATION OF PETROLEUM OILS.

[1962] 8p. 5 refs.

Order from OTS or SLA \$1.10

61-18141

Trans. of Khimicheskii Institut imeni L. Ya. Karpova.
Trudy (USSR) 1926, no. 5, p. 81-89.

DESCRIPTORS: *Petroleum, Mineral oils, *Oxidation,
Catalysis, Alkylation, Lead, Iron, Zinc, Acids,
Sulfuric acid, Cobalt catalysts.

Experiments of oxidation of vaseline oil and solar oil in
the presence of various catalysts are compared with
several non-catalytic experiments. Lead brought about
a more vigorous oxidation than iron or zinc at temper-
atures above 250°. Solar oil is much more stable
toward oxidation than vaseline oil and this is explained
by the presence in the former of resinous substances
(Chemistry--Organic, TT, v. 9, no. 11)

(over)

61-18141

I. Petrov, G. S.
II. Danilovich, A. I.
III. Rabinovich, A. Ya.

Office of Technical Services

FTD (TDBIR)

6-9-2

BT68-10-2135T

Request translation check

8768-10-2147

Thermal strain hardening of nickel-free structural steels
Kurmanov, M.I., Dryukova, I.N.

Russ trudy: Kharkov. Ukrainskiy nauchno-issledovatel'skiy
institut metallov. Sbornik trudov, no 10, 1964. Tekhnologiy
proizvodstva i svoystva i svoystva chernykh metallov.

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In process as FTD-HT-23-1150-68

*Negative
14 Sept 68*

Velocity and Temperature Distribution in a Turbulent
Boundary Layer on a Plate, by I. I. Zhyugzhda,
V. I. Makaryavichyus, 8 pp.

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Ser B, Ak Nauk Lit SSR, No 3, 1963, pp 99-105.

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FTD-TT-64-800

Sci - Phys
Mar 65

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Petrov, G. S., Danilovich, A. I., and Rabinovich, A. Yu.

OXIDATION OF MINERAL OILS WITH SOLUBLE CATALYSTS. [1961] 8p.

Order from OTS or SLA \$1.10 61-18133

Trans. of Khimicheskii Institut im[eni] L. Ya. Karpova.
Trudy(USSR) 1927, p. 157-168.

DESCRIPTORS: *Mineral oils, Oxidation, *Catalysts, Zinc compounds, Lead compounds, Copper compounds, Manganese compounds, Naphthyl radicals, Salts.

Solar oil distillate treated with 13% fuming sulfuric acid (without, however, completely removing the unsaturated) and washed to complete elimination of alkaline salts underwent a more extensive oxidation in the presence of manganese naphthenate than in the presence of naphthenates of zinc, lead and copper under identical conditions (Chemistry, TT, v. 9, no. 6) (over)

61-18133

I. Petrov, G. S. ;
II. Danilovich, A. I.
III. Rabinovich, A. Yu.

Office of Technical Services

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The Spectra and Structure of Metal-Organic Compounds,
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and Hexaethyl Diplumbene, by N. N. Vishinskiy, N. K.
Rudneveliy.

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CP
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9069042

Sci - Min/Metals
Jul 62

Kinetics of the Reaction of Acetylbenzoyl Peroxide
With Isopropyl Alcohol, by V. N. Iatyaeva.

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NLL Ref: 5828.4 1962 (5,246)

Sci - Chem
Jul 63

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Isotope Effect in the Thermodynamic Functions of
Some Organo-Deuterium Compounds in the Ideal
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*CESTI TT 69-55119

sci/chemistry
aug 69

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INTERMEDIATE PRODUCTS OF OXIDATION OF
AMINES BY PERTUNGSTATE. 5 Dec 63 [13p] 32refs
Order from OTS, SLA, or ETC \$1.60 TT-64-10812

Trans. of Tr[udy] po Khim[i] i Khim[icheskoi]
Tekhnol[ogi] (USSR) 1959, v. 2, p. 649-656.

TT-64-10812

I. Lebedev, O. L.
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(Chemistry--Organic, TT, v. 12, no. 2)

Office of Technical Services

The Oxidation of Triethylaluminum and the
Investigation of the Catalytic Properties of
the Oxidation Products, by O. I. Demin.
RUSSIAN, per, Trudy po Khimii i Khimicheskoi
Tekhnologii, no. 3, 1960, pp. 373-380.
NTC 71-12923-07C

July 1971

Petrov, G. S. and Tsvetkova, M. E.
COMBINATION OF UREA AND PHENOL RESINS.
6 Sep 62 [18]p. 26 refs.
Order from OTS or SLA \$1.60

63-10826

Trans. of Khim[iko]-Tekh[nologicheskii Institut] Moscow.
Trudy (USSR) 1959 [no. 29] p. 23-33.

DESCRIPTORS: Synthesis, *Urea, *Phenolic resins,
*Urea-formaldehyde resins, Fractionation, Physical
properties, Condensation reactions, Reaction kinetics,
Mechanical properties.

(Materials--Plastics, TT, v. 10, no. 1)

63-10826

I. Petrov, G. S.
II. Tsvetkova, M. E.

Office of Technical Services

Hydride Method for the Preparation of Particularly
Pure Elements, by G. G. Devyatykh.
RUSSIAN, per, Trudy Khim. Khim. Tekhnol., No 5,
1962, pp 221-232. P911124666
AEC EL-7-tr-1345

Sci/Chemistry
Dec 66

314,603

Investigation of Concentration Dependence
of the Intensity of Aluminum and Zinc
Lines in Contact-Pulse Sampling of
the Al-ZN Alloy S Estance, by
D. P. Milonina, N. K. Rudnevskiy.
RUSSIAN, per, Trudy po Khimii i Khim
Tekh Gor'kiy, No 1, 1963, pp 8-11.
*FTD-TT-65-1639

Sci - M/M
Nov 65

The Study of Globulins of Soybean Seeds by Electrophoresis on Paper, by I. A. Vaintraub.

RUSSIAN, per, Trudy po Khimii Prirooonykh Soedinenii Kishinevskii Gosudarst-vennyi Universitet, No 3, 1960, pp 193-8. (Chem Abs 57, 3789 1962)

*PL-480
USDA

Sci -
Jun 63

N-Terminal Amino Acids of Soybean Seed Globulins,
by I. A. Vaintraub.

RUSSIAN, per, Trudy po Khimii Priorodnykh Soedineniii
Kishinevskii Gosudarst-vennyi Universitet, No 4,
1961, pp 45-48. (Chem Abs 57, 17077 1962)

*PL-480
USDA

Sci -
Jun 63

Baranov, A. V.
PHYSICOCHEMICAL GROUNDS AND WAYS OF IN-
TENSIFYING THE PRODUCTION OF NITRIC ACID
PT. I, tr. by Berta P. Klenova. 19 July 61, 11p.
6 refs. TVA-3915.
Order from OIS or SLA \$1.60 62-24457

Trans. of Khim[ico]-Tekhnol[ogicheskii] Inst[itut]
Dnepropetrovsk. Trudy (USSR) 1955, v. 4, p. 25-34.

DESCRIPTORS: *Nitric acid, Oxides, Production,
Towers (Chemistry), Absorption, Temperature, Cool-
ing, *Physical chemistry.

The effect of temperature on the conversion of oxides
of nitrogen and the rate absorption coefficient were in-
vestigated at various rates of gas flow and various
nitric acid concentrations. The effectiveness of cool-
ing was demonstrated. Concepts regarding the opti-
mum temperature were expressed. (Author)
(Engineering-Chemical, TT, v. 5, no. 9)

62-24457

I. Baranov, A. V.
II. TVA-3916
III. Tennessee Valley Authority,
Wilson Dam, Ala.

Office of Technical Services

Obtaining Water-Resistant High-Strength
Structural Components from Gypsum,
by M. A. Matveev, K. M. Tshchenko,
8 pp.
RUSSIAN, per, Trudy Khimiko-Tekhnologicheskii
Institut Moscow, Vol 16, No 2, 1949,
pp 43-52.
ATB-51R99

336,354

Sci
Aug 67

Zhavoronkov, N. M. and Nikolaev, A. M.
THE DETERMINATION OF EDDY VISCOSITIES IN
TURBULENT FLOW IN CHANNELS OF RECTAN-
GULAR CROSS-SECTION (Opredelenie Viskrozosti
Vyazkosti Turbulentnogo Potoka v Kanale Pryamou-
gol'nogo Secheniia) tr. by G. Fulford. Dec 60 [15]p.
6 refs. [DSIR NLL] M. 4295.
Order from OTS or SLA \$1.60

62-13109

Unedited trans. of Khimiko-Tekhnologicheskii
Institut, Moscow. Trudy (USSR) 1956, v. 21,
p. 177-193.

DESCRIPTORS: *Turbulent flow, Velocity, Viscosity,
Mathematical analysis, Mass transfer, Heat transfer,
Phase transitions, Distribution theory, Resistance.

The law of the velocity distribution in the core of a
(Mechanics--Hydrodynamics, TT, v. 7, no. 11)(over)

62-13109

I. Zhavoronkov, N. M.
II. Nikolaev, A. M.
III. DSIR NLL M. 4295

Office of Technical Services

Darashkevich, M. L.
QUANTITIVE DETERMINATION OF ACETATE IONS
IN SALTS OF ACETIC ACID BY CHROMATOGRAPHY. [1961] 3p.
Order from ATS \$4.50 ATS-40N51R

Trans. of Khimiko-Tekhnologicheskii Institut
Moscow. Trudy(USSR) 1956, v. 22, p. 113-115.

DESCRIPTORS: *Acetates, Ions, Determination,
*Acetic acids, Salts, *Chromatographic analysis.

(Chemistry--Analytical, TT, v. 7, no. 6)

61-25045

I. Darashkevich, M. L.
II. ATS-40N51R
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Kasatkin, A. G. and others.

INVESTIGATION OF THE PROCESS OF CHEMISORPTION OF CO₂ BY SOLUTIONS OF NaOH AND KOH IN A PACKED COLUMN, tr. by G. R. Taylor.

21 June 60 [27]p. 27 refs. CTRA Technical Note no. 97; [DSIR LLU] M 2267.

Order from OTS or SLA \$2.60

61-13749

Trans. of Khim[iko]-Technol[ogicheskiy] Inst[itut]
Moscow. (Trudy (USSR) 1957 [v. 22] no. 24, p. 389-401.

DESCRIPTORS: *Absorption, Chemical reactions,
*Carbon dioxide, Sodium compounds, Potassium compounds, *Hydroxides.

The absorption of CO₂ by NaOH and KOH solutions in a packed column has been investigated. The concept of a coefficient of equivalence, representing the physico-chemical conditions for the occurrence of the mass transfer process, is introduced. Maximum efficiency of operation of the column is attained under emulsification. (Chemistry--Physical, TT, v. 6, no. 5) (over)

61-13749

- I. Kasatkin, A. G.
- II. CTRA TN-97
- III. DSIR LLU M. 2267
- IV. Coal Tar Research Association (Gt. Brit.)

180432

Office of Technical Services

Razumov, A. I.
INVESTIGATIONS OF THE DERIVATIVES OF THE
ALKYL PHOSPHINOUS AND PHOSPHINIC ACIDS.
IX. SOME ALKYLATED AMIDO ESTERS OF PHOS-
PHOROUS ACID AND THEIR ABILITY TO ISOM-
ERIZE. [1963] [5]p. 6 refs.
Order from OTS, SLA or ETC \$1.10 TT-63-19452

Trans. of Khimiko-Tekhnologicheskii Institut, Kazan.
Trudy (USSR) 1957, no. 23, p. 201-204. (Abstract
available)

DESCRIPTORS: Alkyl radicals, *Phosphinous acids,
*Phosphorous acids, Esters, Amides, *Alkylation,
*Molecular isomerism.

Some representatives of the alkylated amides of phos-
phorous acid were synthesized. The alkylated amides
of phosphorous acid were isomerized to amides of the
phosphinic acids. It is shown that alkylated amides of
phosphorous acid can enter into addition reactions.
(Author)

TT-63-19452

I. Razumov, A. I.
II. Title: Some ...
III. Translations, New York

(Chemistry--Organic, TT,
v. 11, no. 2)

Office of Technical Services

Kasatkin, A. G. Kafarov, V. V., and Panfilov, M. N.
STUDY OF AGITATION BY MECHANICAL STIRRERS
IN GAS-LIQUID SYSTEMS. [1961] 16p. 14 refs.
Warren Spring Lab. Trans. NT 779; DSIR LLU
M. 2705.

Order from OTS or CLA \$1.60

61-23511

Trans. of Khimiko-Tekhnologicheskii Institut, Moscow.
Trudy, 1957 (v. 22) no. 24, p. 413-427.

DESCRIPTORS: *Gases, *Liquids, *Stirrers, Effectiveness.

The hydrodynamic modelling conditions for stirring water/air and systems with similar physical properties in turbulent flow conditions of the liquid are: equal energy consumption for stirring the liquid without the gas, and equal V_g/nd^3 ratios for the geometrically similar stirrers. Equations are formulated for calculation. (Engineering--Chemical, TT, v. 6, no. 8) (over)

61-23511

- I. Kasatkin, A. G.
- II. Kafarov, V. V.
- III. Panfilov, M. N.
- IV. DSIR NT-779
- V. DSIR LLU M. 2705
- VI. Department of Scientific and Industrial Research (Gr. Brit.)

195190

Office of Technical Services

Smolyan, Z. S., Kurdyumova, N. A., and
Pyryalova, P. S.
LOW TEMPERATURE CHLORINATION OF ETHANE
IN THE PRESENCE OF INITIATORS. [1960] Sp.
Order from ATS \$8.10 ATS-54M40R

Trans. of Trudy [po] Khimii i Khim. Tekhnol. (USSR)
1958, v. I, no. 1, p. 187-189.

DESCRIPTORS: *Low temperature research, *Chlorina-
tion, *Ethanes, Azo radicals, Carbon tetrachloride,
Canavanine, Benzoyl radicals, Peroxides, Methyl radi-
cals, Carbonates, *Laboratory equipment.

(Chemistry--Organic, TT, v. 9, no. 6)

60-22825

- I. Smolyan, Z. S.
- II. Kurdyumova, N. A.
- III. Pyryalova, P. S.
- IV. ATS-54M40R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Baranov, A. V. and Krechetova, T. A.
COMPARATIVE EVALUATION OF METHODS FOR
PREPARATION OF NITRIC ACID FROM NITROGEN
OXIDES. I. KINETICS OF BUBBLE CAP ABSORP-
TION, tr. by Bertha P. Klenova. 19 Feb 62, 12p.
6 refs. TVA-3982.

Order from OTS or SLA \$1.60

62-24466

Trans. of Khim[iko]-Tekhnol[ogicheskii] Inst[itut]
Dnepropetrovsk. Trudy (USSR) 1958, v. 1, p. 99-109.

DESCRIPTORS: *Nitric acid, *Nitrogen compounds,
Oxides, Preparation, Towers (Chemistry), Bubbles,
Absorption, Reaction kinetics.

The method of the rising bubble was applied to the
study of the relation of the coefficient of mass trans-
fer to temperature, rates of gas and liquid flow, depth
of bubbling layer, diameter of nozzle or gas bubble,
and concentrations of nitric acid and of nitrogen di-
(Engineering--Chemical, TT, v. 8, no. 9) (over)

62-24466

- I. Baranov, A. V.
- II. Krechetova, T. A.
- III. Title: Kinetics ...
- IV. TVA-3982
- V. Tennessee Valley Authority,
Wilson Dam, Ala.

Office of Technical Services

Batalov, A. P. and Korshunov, I. A.
RADICAL EXCHANGE IN ORGANOMETALLIC COM-
POUNDS. VI. A NEW METHOD FOR DETERMINING
THE COMPOSITION OF COMPLEXES OF ALUMINUM
TRIETHYL WITH SOME ORGANIC SOLVENTS.

14 June 62 [8]p. 7 refs.

Order from OTS or SLA \$1.10

63-10805

Trans. of Trudy po Khim[il] i Khim[ichekol] Tekhnol-
[ogii] (USSR) 1960 [v. 3] no. 3, p. 501-504.

DESCRIPTORS: *Metalorganic compounds, *Exchange
reactions, *Complex compounds, *Ziegler catalysts,
*Aluminum compounds, *Ethyl radicals, Chemical
analysis, *Organic solvents, Ethyl ethers, Pyridines,
Ethylenes, Dioxides, Heterocyclic compounds.

A new method is proposed for determining the composi-
tion of complexes of aluminum triethyl with oxygen and
(Chemistry--Analytical, TT, v. 10, no. 3) (over)

63-10805

I. Batalov, A. P.
II. Korshunov, I. A.
III. Title: New ...

Office of Technical Services

The Spectra and Structure of Metallo-
Organic Compounds, Part I. Vibrational
Spectra of Tetraethyllead and Hexaethyl-
plumbane, by N. N. Vyshinskiy, N. K.
Radnitskiy, 10 pp.

RUSSIAN, par, Trudy po Khim i Khim
Tekh, No 3, 1960, pp 538-544. 9069042

AEC Tr-5300

Sci - Min/Met
Dec 62

215,467